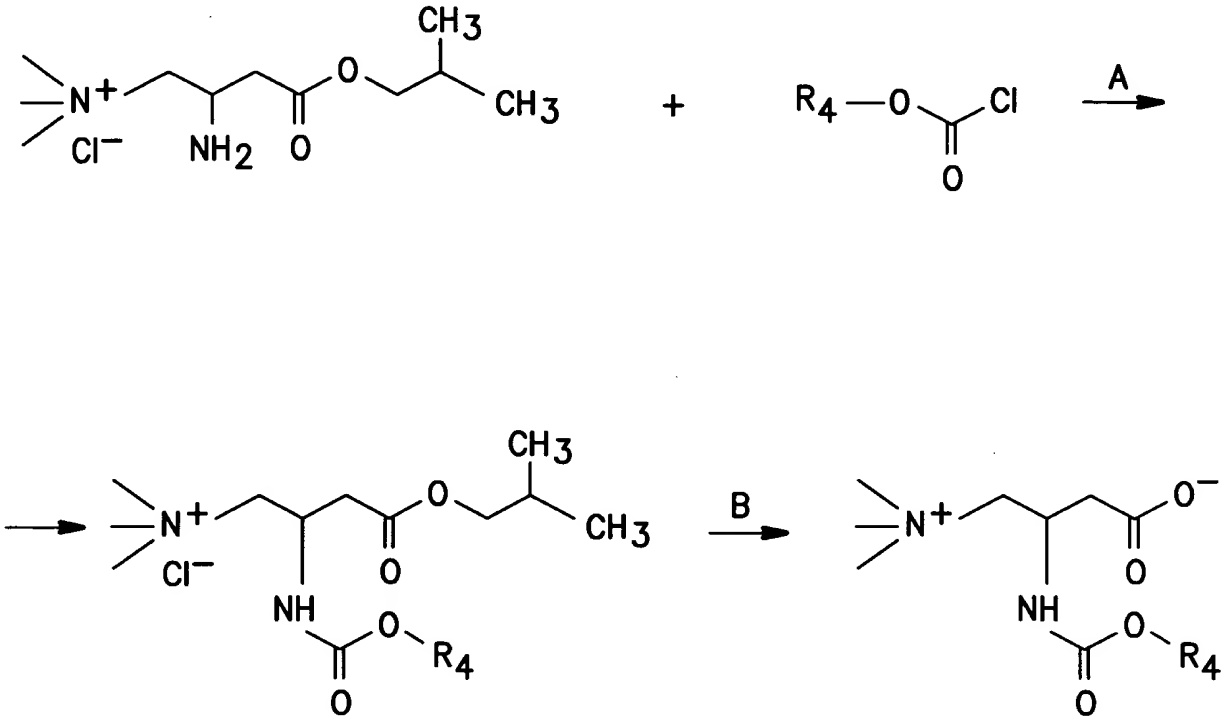
Fig. 1

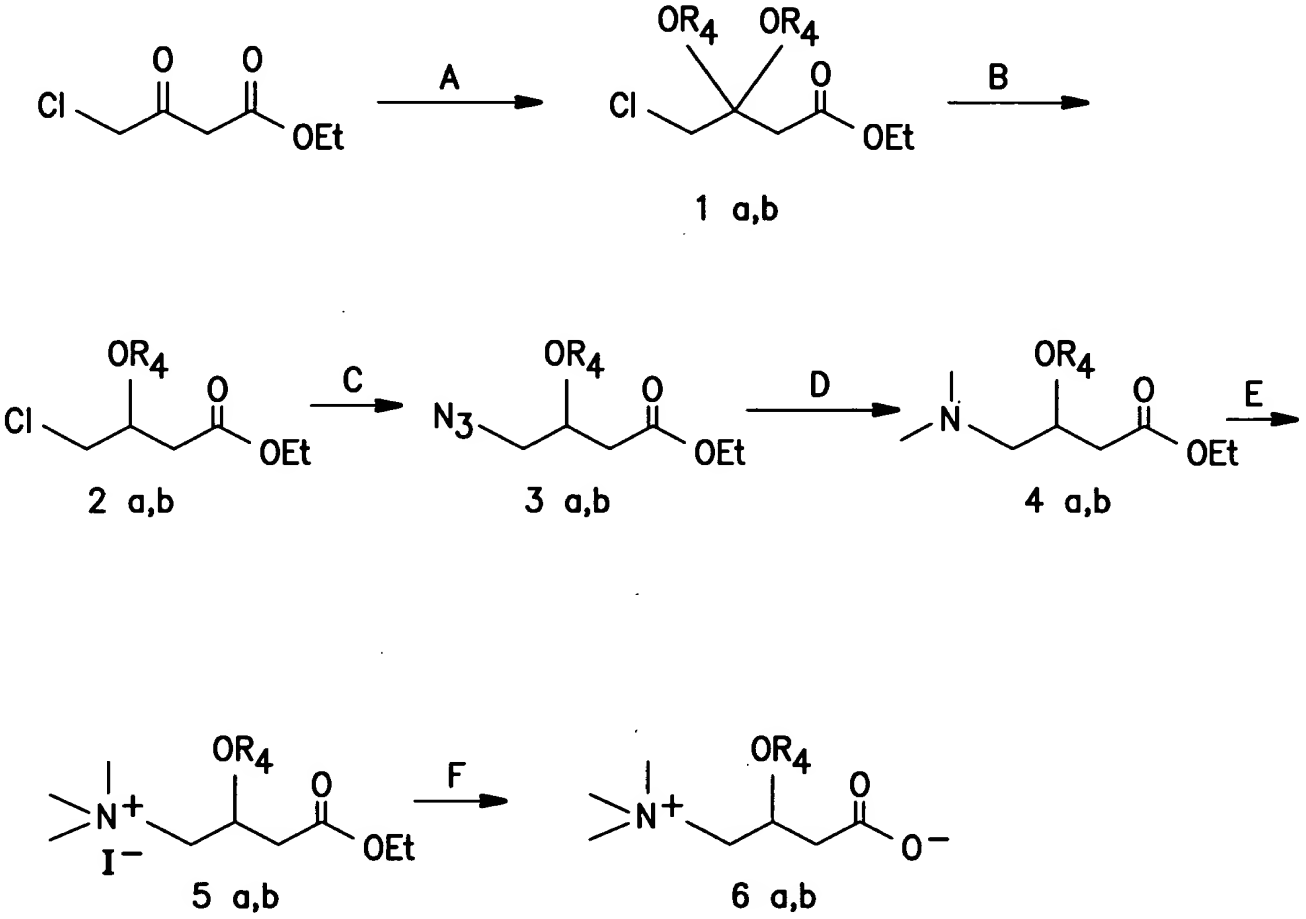


(1a,b) (2a,b)

R_4= a)$-(CH_2)_7CH_3$
b)$-(CH_2)_8CH_3$

A) base
B) IRA 402/OH^-form

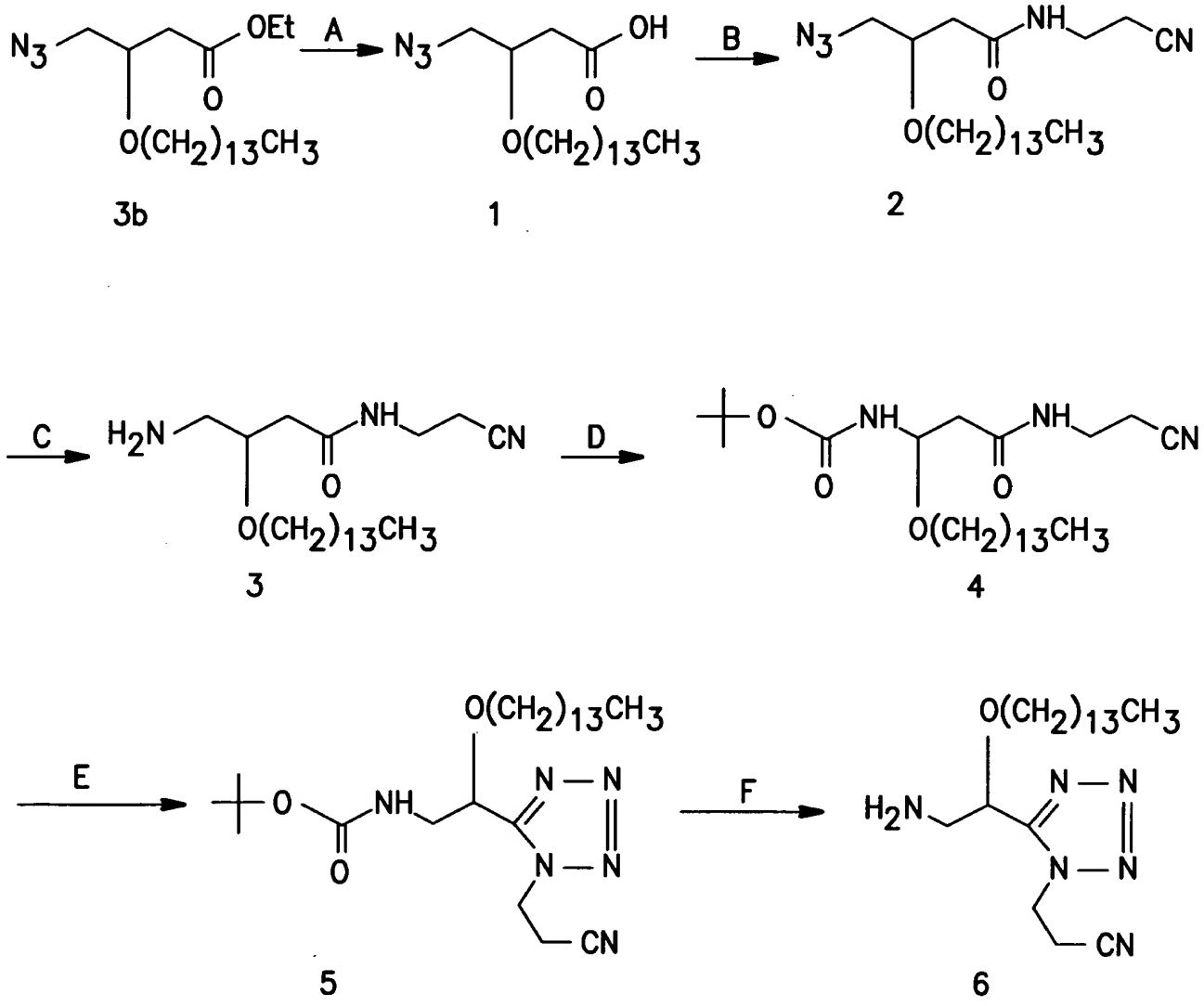
Fig. 2



R_4 = a)$-(CH_2)_7CH_3$
b)$-(CH_2)_{13}CH_3$

A) R_4OH, $SOCl_2$
B) Et_3SiH, $BF3.Et_2O$
C) NaN_3
D) Pd/C H_2, HCHO
E) CH_3I
F) IRA 402 OH^-

Fig. 3A



A) NaOH 4N, MeOH, 16h, t.a

B) $H_2NCH_2H_2CN$, DMF, TEA, DEPC

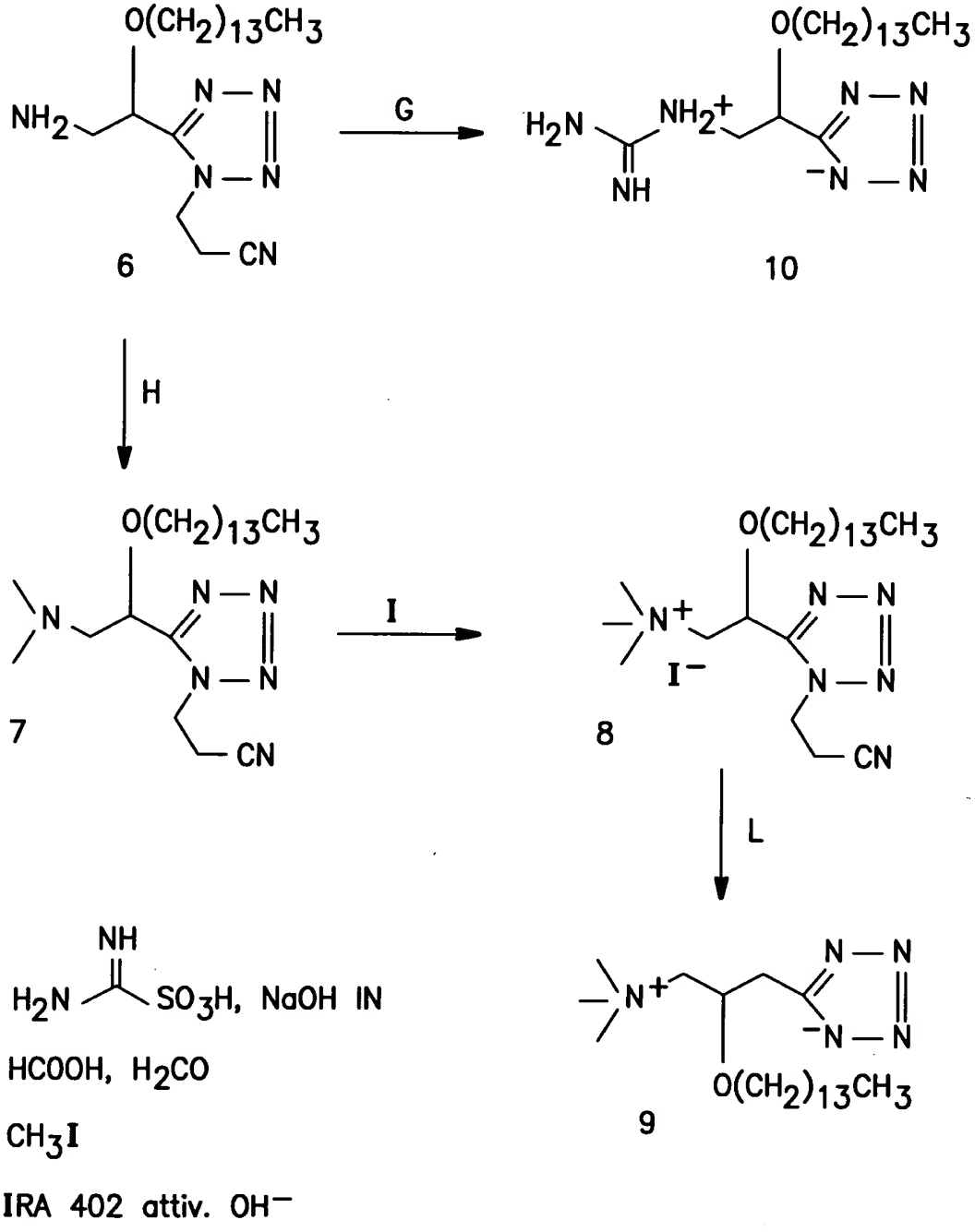
C) THF, Ph_3P

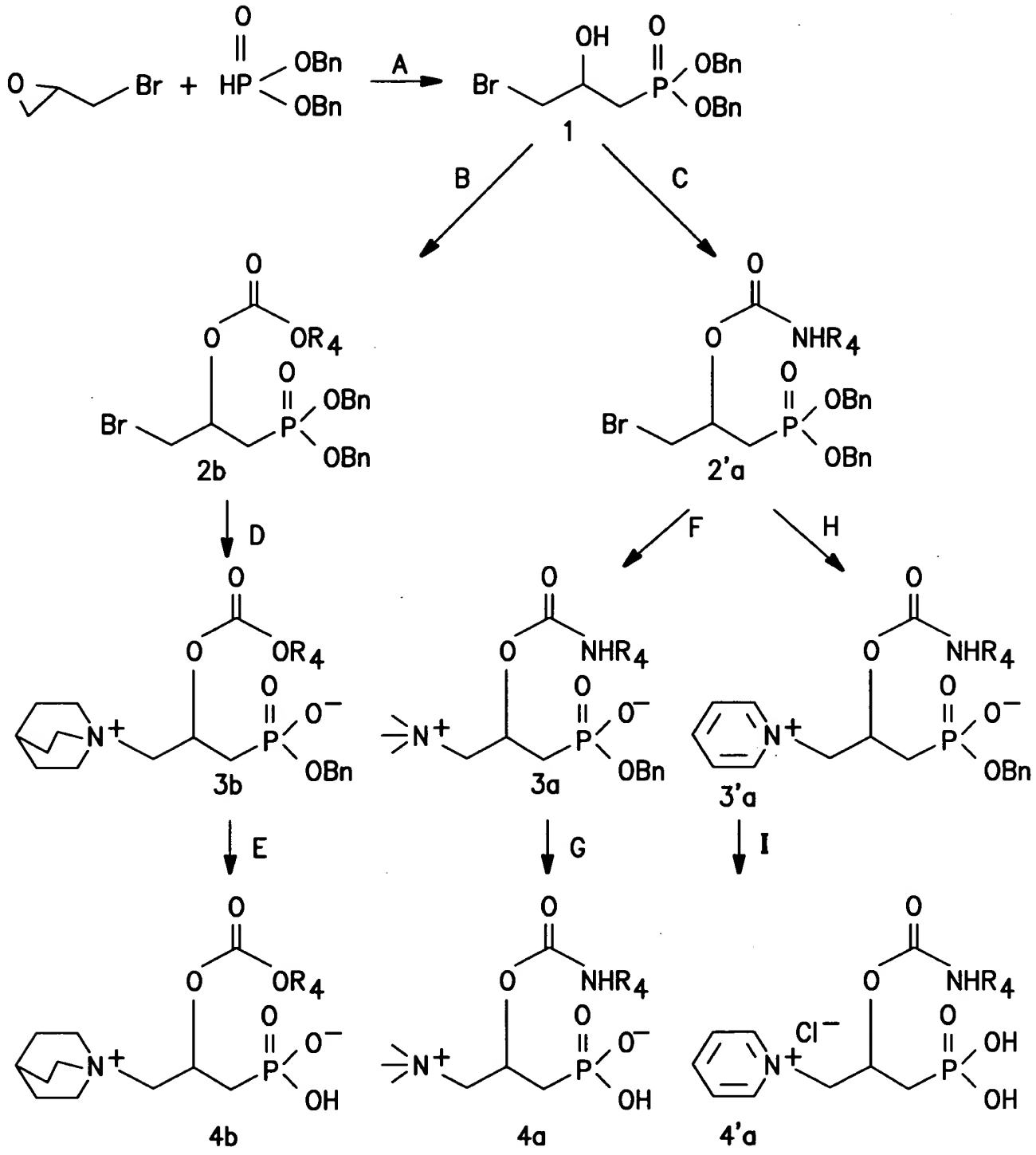
D) $(BOC)_2O$, NaOH IN

E) THF, PH_3P, DEAD, Et_3SiN_3

F) HCl 3N, NaOH IN

Fig. 3B





R_4= a)$-(CH_2)_7CH_3$
b)$-(CH_2)_{13}CH_3$

A) 1)BuLI 2)BF_3. Et_2O
B) R_4OCOCl, Base
C) $R_4N{=}C{=}O$, BF_3. Et_2O
D) Quinuclidine F) Trimethylamine
H) Pyridine
E=G) H_2,Pd/C

Fig. 4